



**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of : :

*Steven L. Edwards et al.* : Examiner: UNKNOWN

U.S. Serial No. 10/042,513 : Group Art Unit: 1731

Filed January 9, 2002 : :

Docket No. 2196-1 (FJ-99-41) : :

For: WET CREPE THROUGDRY PROCESS :  
FOR MAKING ABSORBENT SHEET  
AND NOVEL FIBROUS PRODUCTS :  
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**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. 1.56, 1.97 AND 1.98**

Box DD  
Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

Applicants submit herewith patents, publications, and other information of which they are aware, which they believe may be material, as defined in 37 C.F.R. 1.56(b), to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 C.F.R. 1.56(a). While information referred to in this Information Disclosure Statement may be material pursuant to 37 C.F.R. 1.56(b), the filing of this Information Disclosure Statement is not intended to, pursuant to 37 C.F.R. 1.97(h), constitute an admission that any patent, publication or other information referred to is, or is considered to be, material to the patentability of this invention. Pursuant to 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information exists.

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(1) The undersigned attorney certifies that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement;

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(3) This Information Disclosure Statement is accompanied by a transmittal letter in which payment of the fee set forth in §1.17(p) and required by 37 C.F.R. 1.97 (c) is authorized.

Patents

1. U.S. Patent No. 3,301,746, issued January 31, 1967, entitled "Process for Forming Absorbent Paper by Imprinting a Fabric Knuckle Pattern Thereon Prior to Drying and Paper Thereof", of *L.H. Sanford et al.*;
2. U.S. Patent No. 3,432,936, issued March 18, 1969, entitled "Transpiration Drying and Embossing of Wet Paper Webs", of *R.I. Cole et al.*;
3. U.S. Patent No. 3,507,745, issued April 21, 1970, entitled "Doctor Blade Mechanism", of *M.J. Fuerst*;
4. U.S. Patent No. 3,994,771, issued November 30, 1976, entitled "Process for Forming a Layered Paper Web Having Improved Bulk, Tactile Impression and Absorbency and Paper Thereof", of *Morgan, Jr. et al.*;
5. U.S. Patent No. 4,102,737, issued July 25, 1978, entitled "Process and Apparatus for Forming a Paper Web Having Improved Bulk and Absorptive Capacity", of *W.J. Morton*;
6. U.S. Patent No. 4,356,059, issued October 26, 1982, entitled "High Bulk Papermaking System", of *R.E. Hostettler*;
7. U.S. Patent No. 4,440,597, issued April 3, 1984, entitled "Wet-Microcontracted Paper and Concomitant Process", of *E.R. Wells et al.*;
8. U.S. Patent No. 4,443,299, issued April 17, 1984, entitled "Apparatus and Method for the Manufacture of a Non-Woven Fibrous Web", of *J.O. Cheshire et al.*;
9. U.S. Patent No. 4,448,638, issued May 15, 1984, entitled "Paper Webs Having High Bulk and Absorbency and Process and Apparatus for Producing The Same", of *B.G. Klowak*;
10. U.S. Patent No. 4,529,480, issued July 16, 1985, entitled "Tissue Paper", of *P.D. Trokhan*;
11. U.S. Patent No. 4,543,156, issued September 24, 1985, entitled "Method for Manufacture of a Non-Woven Fibrous Web", of *J.O. Cheshire et al.*;
12. U.S. Patent No. 4,689,119, issued August 25, 1987, entitled "Apparatus for Treating Web Material", of *S.B. Weldon*;
13. U.S. Patent No. 4,764,253, issued August 16, 1988, entitled "Method for Controlling Feed of Foamed Fiber Slurries", of *J.O. Cheshire et al.*;

14. U.S. Patent No. 5,164,045, issued November 17, 1992, entitled "Soft, High Bulk Foam-Formed Stratified Tissue and Method for Making Same", of *A.O. Awofeso et al.*;
15. U.S. Patent No. 5,200,035, issued April 6, 1993, entitled "High Uniformity Foam Forming", of *D.M. Bhat et al.*;
16. U.S. Patent No. 5,232,555, issued August 3, 1993, entitled "Wet Cellulosic Web Transfer Method Using Air Doctor Blade", of *R. Daunais et al.*;
17. U.S. Patent No. 5,336,373, issued August 9, 1994, entitled "Method for Making a Strong, Bulky, Absorbent Paper Sheet Using Restrained Can Drying", of *T.F. Scattolino et al.*;
18. U.S. Patent No. 5,411,636, issued May 2, 1995, entitled "Method for Increasing the Internal Bulk of Wet-Pressed Tissue", of *M.A. Hermans et al.*;
19. U.S. Patent No. 5,494,554, issued February 27, 1996, entitled "Method for Making Soft Layered Tissues", of *S.L. Edwards et al.*;
20. U.S. Patent No. 5,505,818, issued April 9, 1996, entitled "Method for Increasing the Internal Bulk of Wet-Pressed Tissue", of *M.A. Hermans et al.*;
21. U.S. Patent No. 5,510,002, issued April 23, 1996, entitled "Method for Increasing the Internal Bulk of Wet-Pressed Tissue", of *M.A. Hermans et al.*;
22. U.S. Patent No. 5,512,139, issued April 30, 1996, entitled "Method and Device for Making Tissue", of *B.J. Worcester*;
23. U.S. Patent Nos. 5,607,551, issued March 4, 1997, entitled "Soft Tissue" of *T.E. Farrington, Jr. et al.*;
24. U.S. Patent No. 5,738,760, issued April 14, 1998, entitled "Method of an a Device for Transferring Running Dried Web from One Device to a Subsequent Device", of *T.O.S. Svanqvist et al.*;
25. U.S. Patent No. 5,851,353, issued December 22, 1998, entitled "Method for Wet Web Molding and Drying", of *M.W. Fiscus et al.*;
26. U.S. Patent No. 5,865,955, issued February 2, 1999, entitled "Method and Device for Enhancing the Run of a Paper Web in a Paper Machine", of *H.Ilvespää et al.*;
27. U.S. Patent No. 5,891,309, issued April 6, 1999, entitled "Web Stabilizing Device", of *R.E. Page et al.*;

28. U.S. Patent No. 5,968,590, issued October 19, 1999, entitled "Method for Drying a Surface-Treated Paper Web in an After-Dryer of a Paper Machine and After-Dryer of a Paper Machine", of *P. Ahonen et al.*;
29. U.S. Patent No. 6,001,421, issued December 14, 1999, entitled "Method for Drying Paper and a dry End of a Paper Machine", of *P. Ahonen et al.*;
30. U.S. Patent No. 6,036,820, issued March 14, 2000, entitled "Shoe Press Unit", of *C. Schiel et al.*;
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32. U.S. Patent No. 6,210,528, issued April 3, 2001, entitled "Process of Making Web-Creped Imprinted Paper", of *R.I. Wolkowicz*;
33. Reissue Patent No. 28,459, reissued July 1, 1975, entitled "Transpiration Drying and Embossing of Wet Paper Webs", of *R.I. Cole et al.*;
34. Canadian Patent No. 2,053,505, issued April 13, 1999, entitled "Foam Forming Method and Apparatus", of *J.H. Dwiggins et al.*;
35. British Publication No. 2 303 647 A, published February 26, 1997, entitled "Wet-Resilient Absorbent Structures", of *F-J Chen et al.*;
36. WIPO Publication No, WO 96/09435, published April 3, 1996, entitled "Wet-Resilient Webs", of *F-J Chen et al.*;
37. Canadian Application No. 2,197,485, filed February 12, 1997, entitled "Wet-Resilient Webs and Disposable Articles Made Therewith", of *F-J Chen et al.*; and
38. Canadian Application No. 2,241,820, filed July 31, 1998, entitled "Wet-Resilient Webs and Disposable Articles Made Therewith", of *F-J. Chen et al.*.

#### Publications / Abstracts

1. "Total Machine Concept and Considerations for Thru-Air-Dried Tissue Paper", EUCEPA 24<sup>th</sup> Conf. Proc. F(Stockholm), Pap. Technol.: 310-320 (May 8-11, 1990), of *B.K.G. Glifberg et al.*;
2. "Economic Considerations in Through-Air Drying", Pap. News (Valmet) 6, no. 1: 15-16 (1990), of *R.A. Parker*;

3. "Convective Heat Transfer Under Turbulent Impinging Slot Jet at Large Temperature Differences", Drying '85 (Toei & Mujumdar, eds.)/Proc. Int. Drying Symp. (Kyoto) 4<sup>th</sup>: 354-359 (July 9-12, 1984); c1985 Hemisphere Publ. Co., of *D. Das et al.*;
4. "Intensification of Paper Web Dewatering and Drying", Przeglad Papier, 45, no. 11: 402-404 (Nov. 1979), of *W. Kawka et al.*;
5. "Some Problems of Blow-Through Drying of Porous Papers", Przeglad Papier, 33, no. 8: 299-305 (Aug. 1977), of *W. Kawka et al.*
6. "Through-Dryer Adds New Life to Old Yankee Machine at Cascade Paper", Pulp & Paper, September 1978, pp.78-79, of *M. Browning*;
7. "Air Permeability of Parachute Cloths", Textile Research Journal, April 1995, pp. 296-313, of *M.J. Goglia et al.*; and
8. "Fluid Flow Through Porous Metals", Journal of Applied Mechanics, March, 1951, pp. 39-45, of *L. Green et al.*

Respectfully submitted,



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